

Claims

- [c1] 1. A fuel injector (2), comprising a chamber (7) with a fuel inlet (8) and a plurality of fuel outlets (10), and comprising a fuel distributor (18) that is arranged in the chamber (7) for the purpose of distributing fuel introduced into the chamber (7) via the fuel inlet (8) to the outlets (10), characterized in that the fuel distributor (18) comprises a generally rotary symmetric distributor body (19).
- [c2] 2. A fuel injector according to claim 1, characterized in that the chamber (7) is delimited by at least one side wall (16), and that said fuel distributor (18) defines a lid or plug that forms an end wall (21) in relation thereto.
- [c3] 3. A fuel injector according to claim 2, characterized in that the fuel inlet (8) is provided in the side wall (16) and that the outlets (10) are provided in an end wall (17).
- [c4] 4. A fuel injector according to claim 3, characterized in that the fuel outlets (10) are provided in an end wall (17) opposite to an end wall (21) that is formed by the fuel distributor (18) or to which the fuel distributor (18) is attached.

- [c5] 5. A fuel injector according to any one of claims 1–4, characterized in that it comprises a cylinder (16) that defines a side wall (16), and that the cylinder has a generally circular inner periphery.
- [c6] 6. A fuel injector according to claim 5, characterized in that the distributor body (19) is concentric with the cylinder (16).
- [c7] 7. A fuel injector according to any one of claims 1–6, characterized in that the distributor body (19) is located in front of the fuel inlet (8) and covers the fuel inlet (8).
- [c8] 8. A method of manufacturing a fuel injector according to any one of claims 1–7, characterized in that the distributor body (19) is produced by subjecting a work piece to a turning operation.
- [c9] 9. A method according to claim 8, characterized in that the distributor body (19) is formed to its final shape by the turning operation.
- [c10] 10. A method according to claim 8 or 9, characterized in that the fuel distributor (18) is attached to an adjacent side wall (16) of the fuel injector (1) by means of welding or brazing.
- [c11] 11. An engine comprising a combustion chamber, char-

acterized in that it comprises a fuel injector (2) according to any one of claims 1–7 for injection of fuel into the combustion chamber (5) via the fuel outlets (10) of the fuel injector (1).

[c12] 12. An engine according to claim 11, characterized in that it is a jet engine and that the combustion chamber (5) is an afterburner chamber.

[c13] 13. An engine according to claim 12, characterized in that it comprises a plurality of fuel injection tubes (11) connected to said plurality of outlets (10) of the fuel injector (1) and extending into the afterburner chamber (5).

[c14] 14. A jet engine according to any one of claims 12–13, characterized in that it comprises a radial flame holder (12) and that the fuel injector tubes (11) extend into the afterburner chamber (5) upstream the radial flame holder (12) as seen in the gas flow direction in the afterburner.